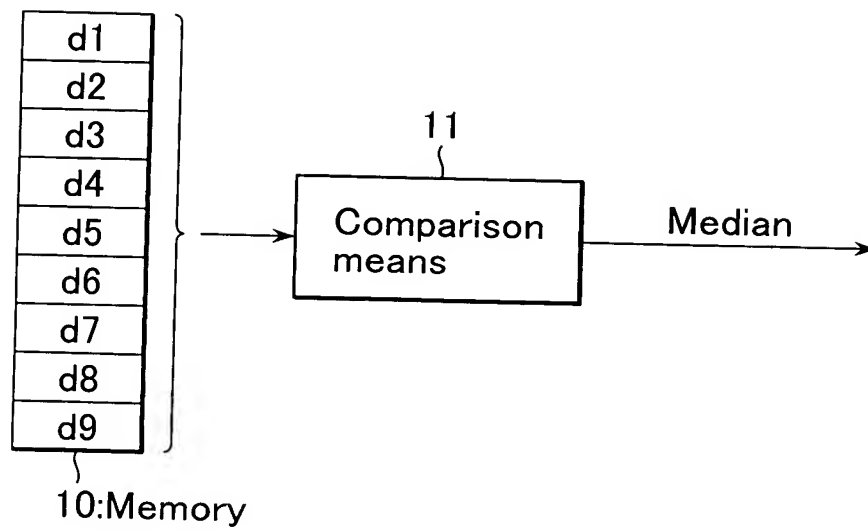


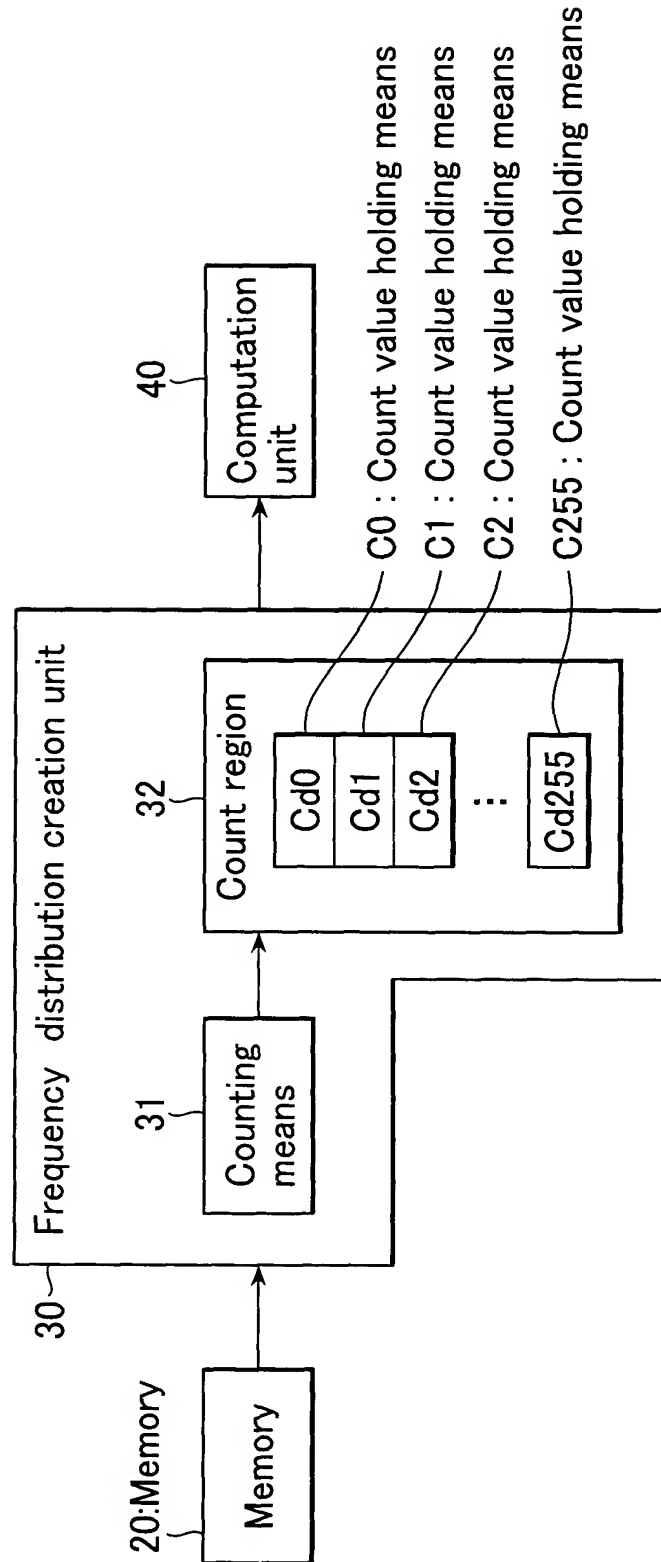
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FIG. 1 (Prior Art)



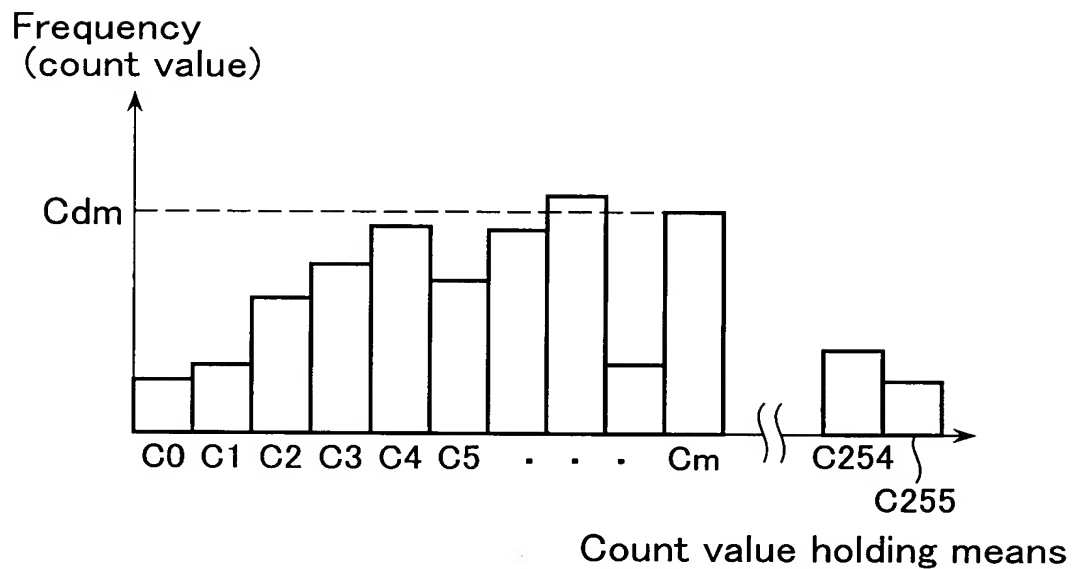
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FIG.2 (Prior Art)



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FIG.3 (Prior Art)



The median is the numerical value data corresponding to the count value holding means  $C_m$ , where  $(N+1) \leq C_{d0}$  or  $C_{d0} + C_{d1} + \dots + C_{d(m-1)} < (N+1) \leq C_{d0} + C_{d1} + \dots + C_{d(m-1)} + C_{dm}$ .

FIG.4

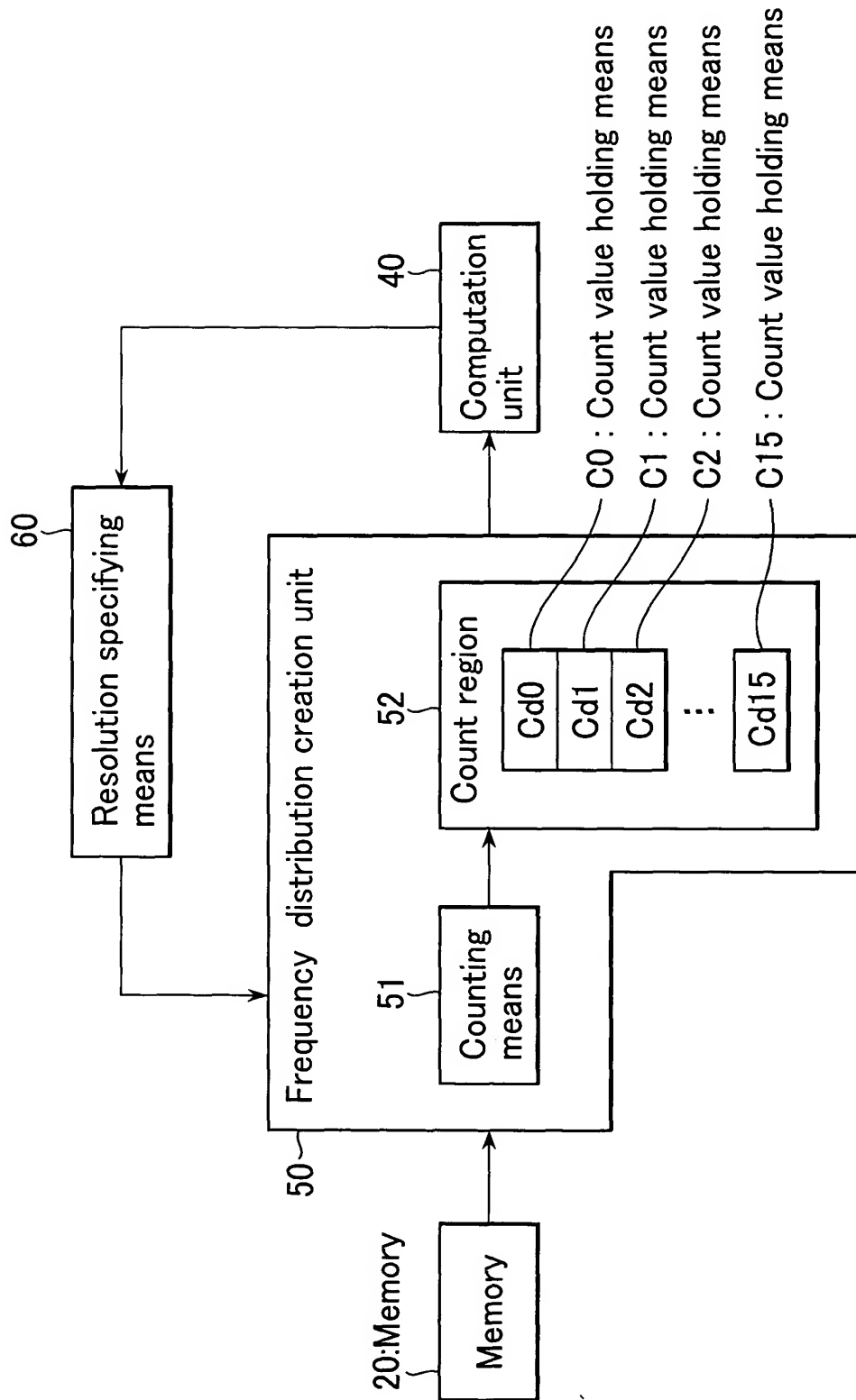
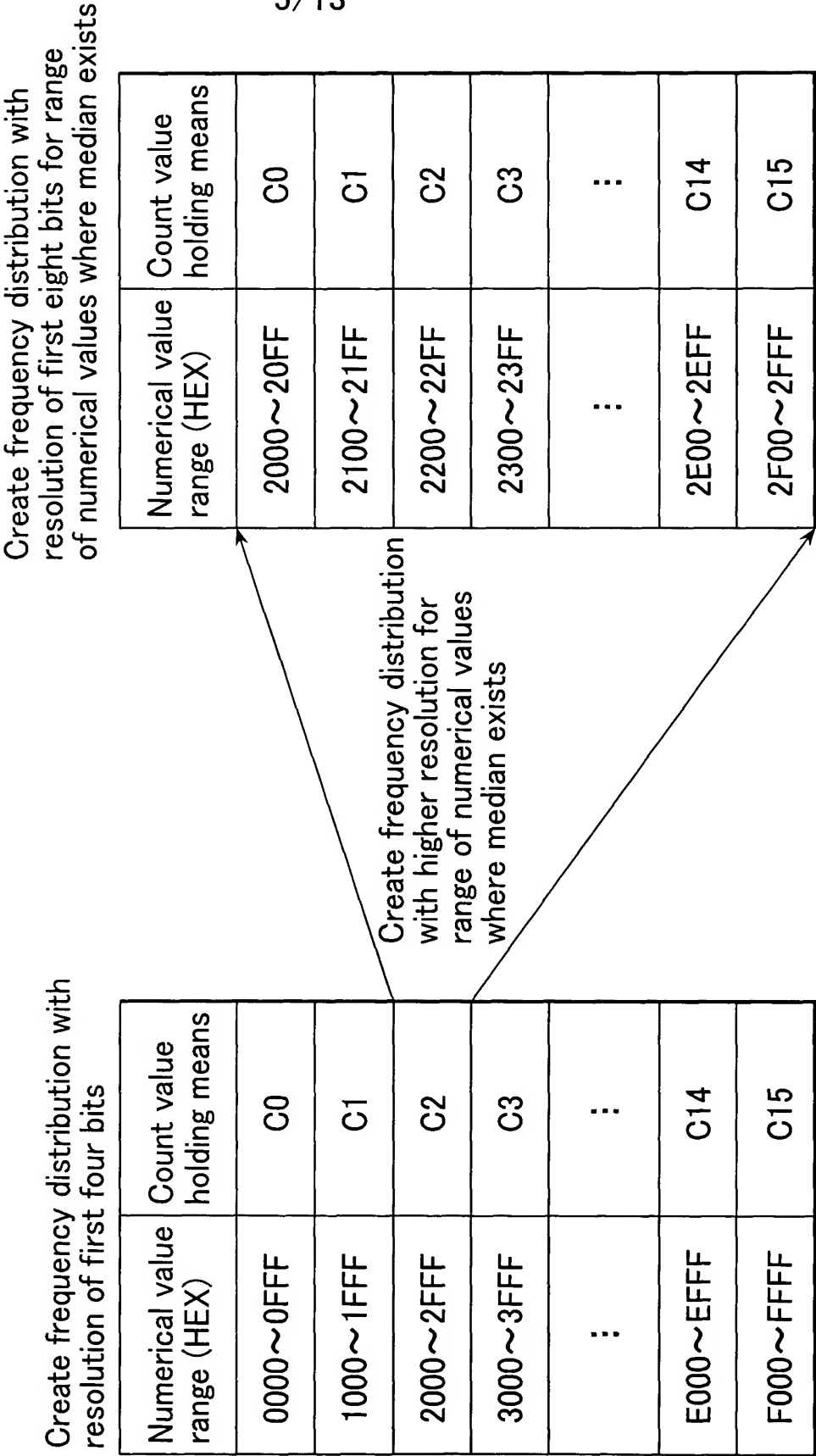


FIG.5



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FIG.6

	Create frequency distribution (read and count)	Cumulative value computation	Total
Device shown in FIG.2	1001 times $\times$ 2	65,535 times	67,537 times
Device shown in FIG.4	(1001 times $\times$ 2) $\times$ 4	15 times $\times$ 4 times	8068 times

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FIG. 7

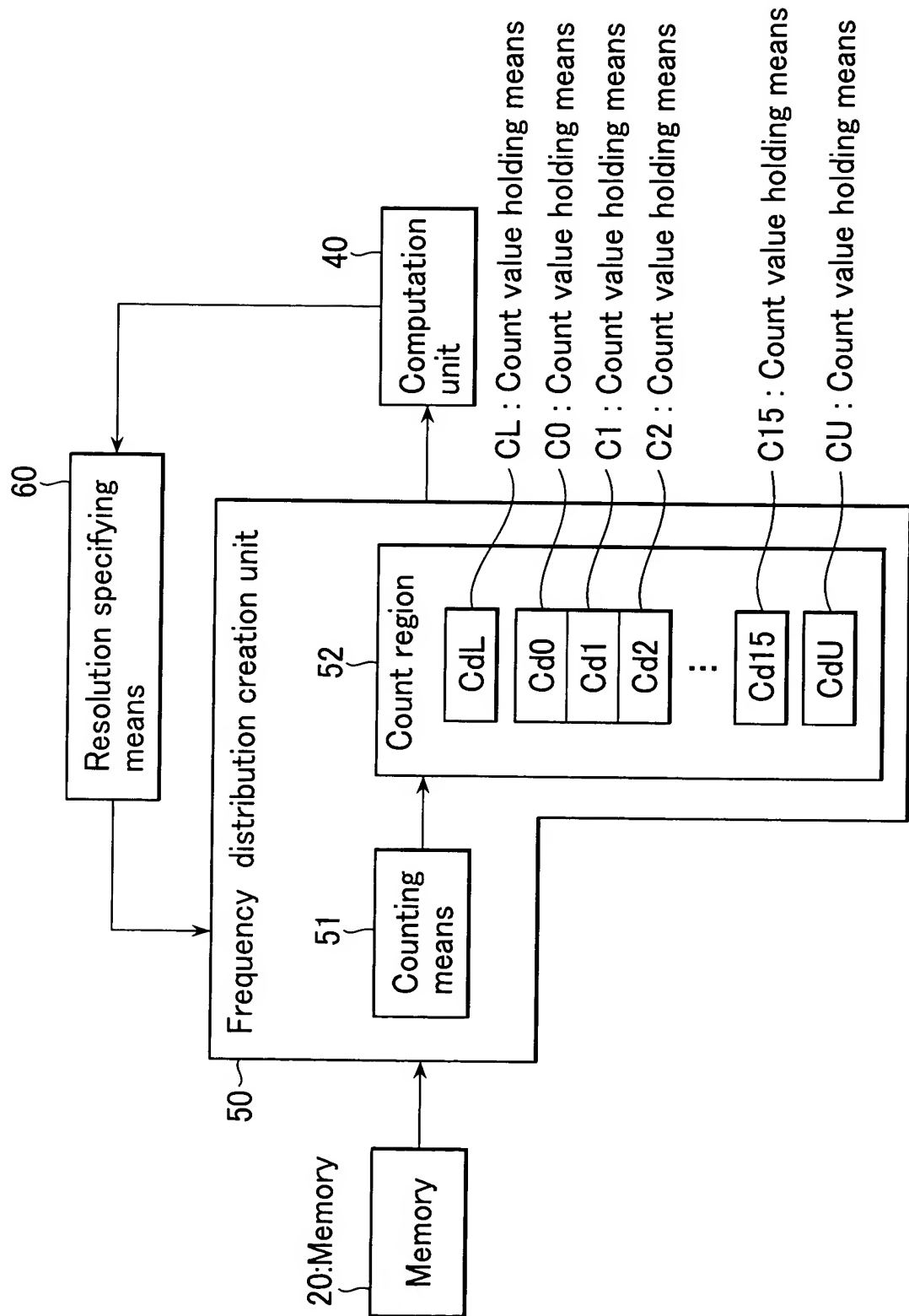
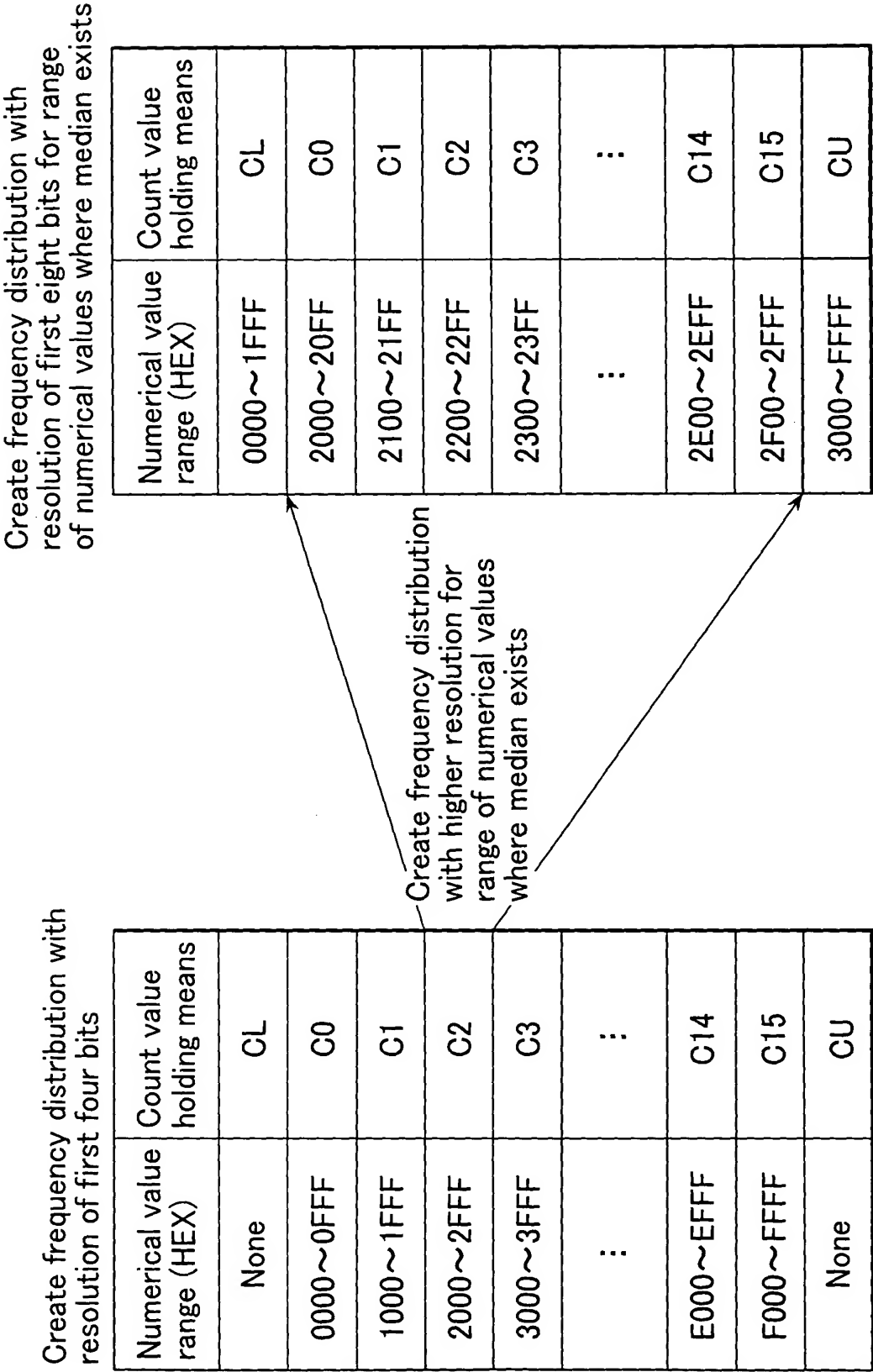


FIG.8





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FIG.9

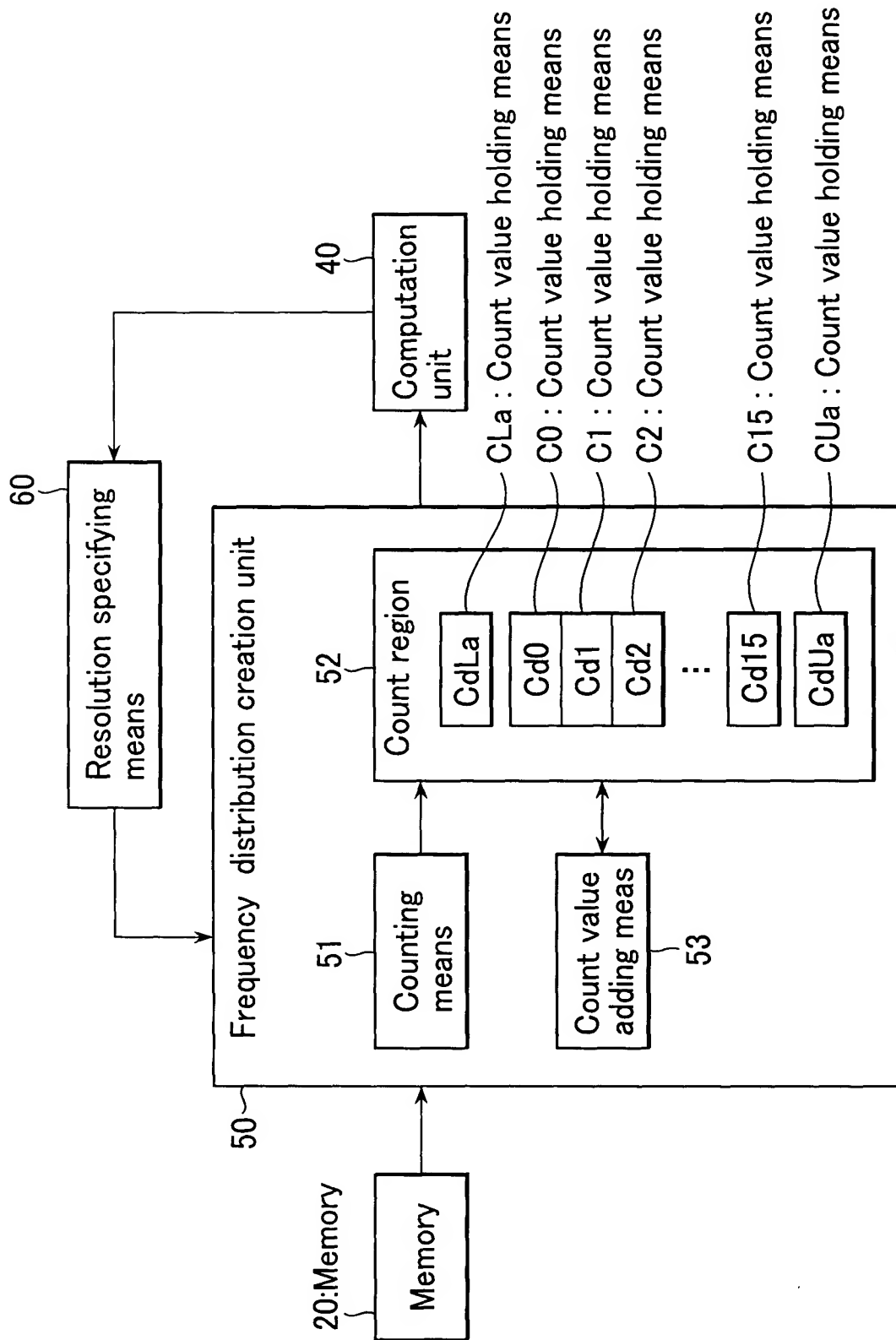
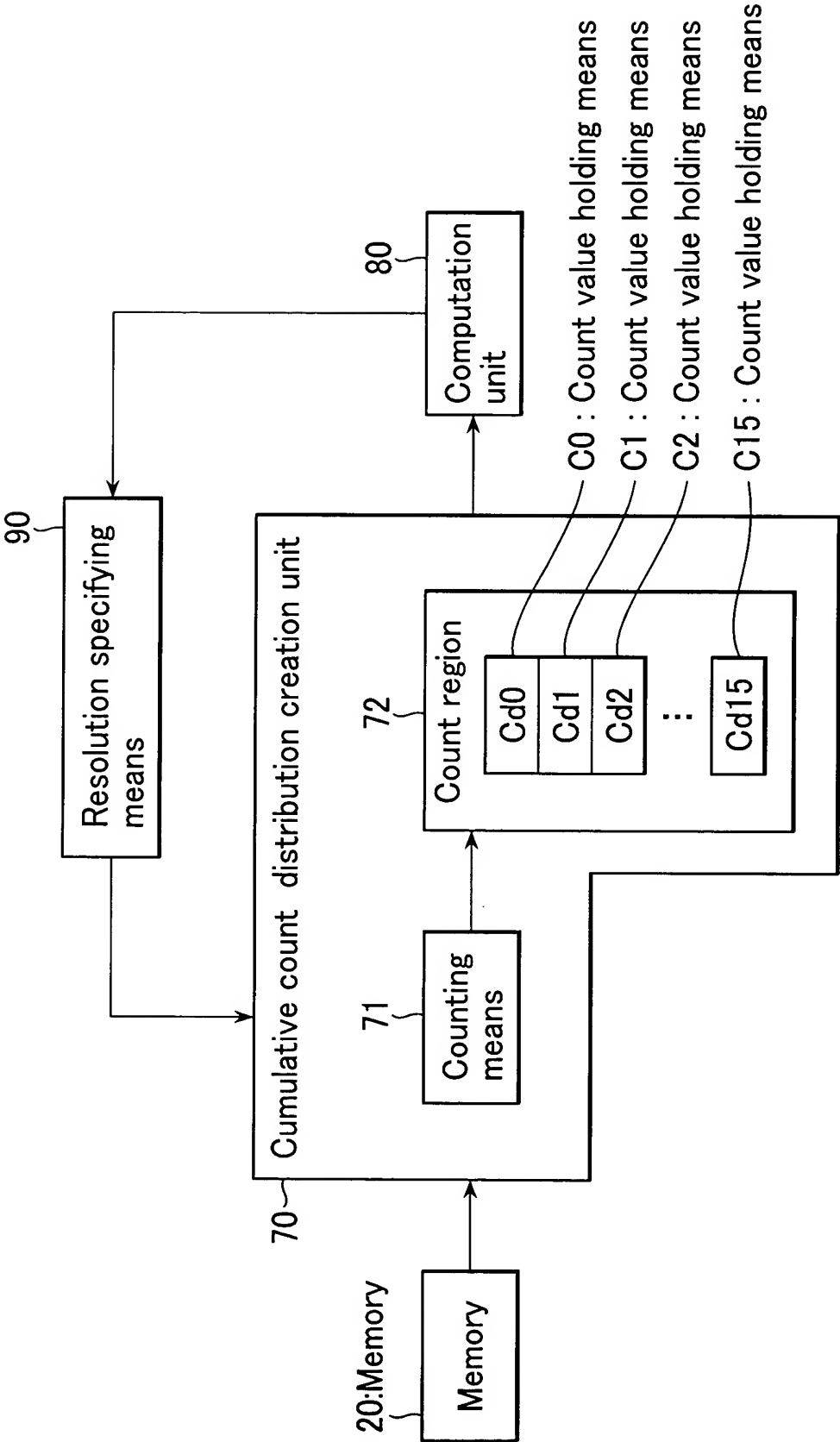


FIG.10

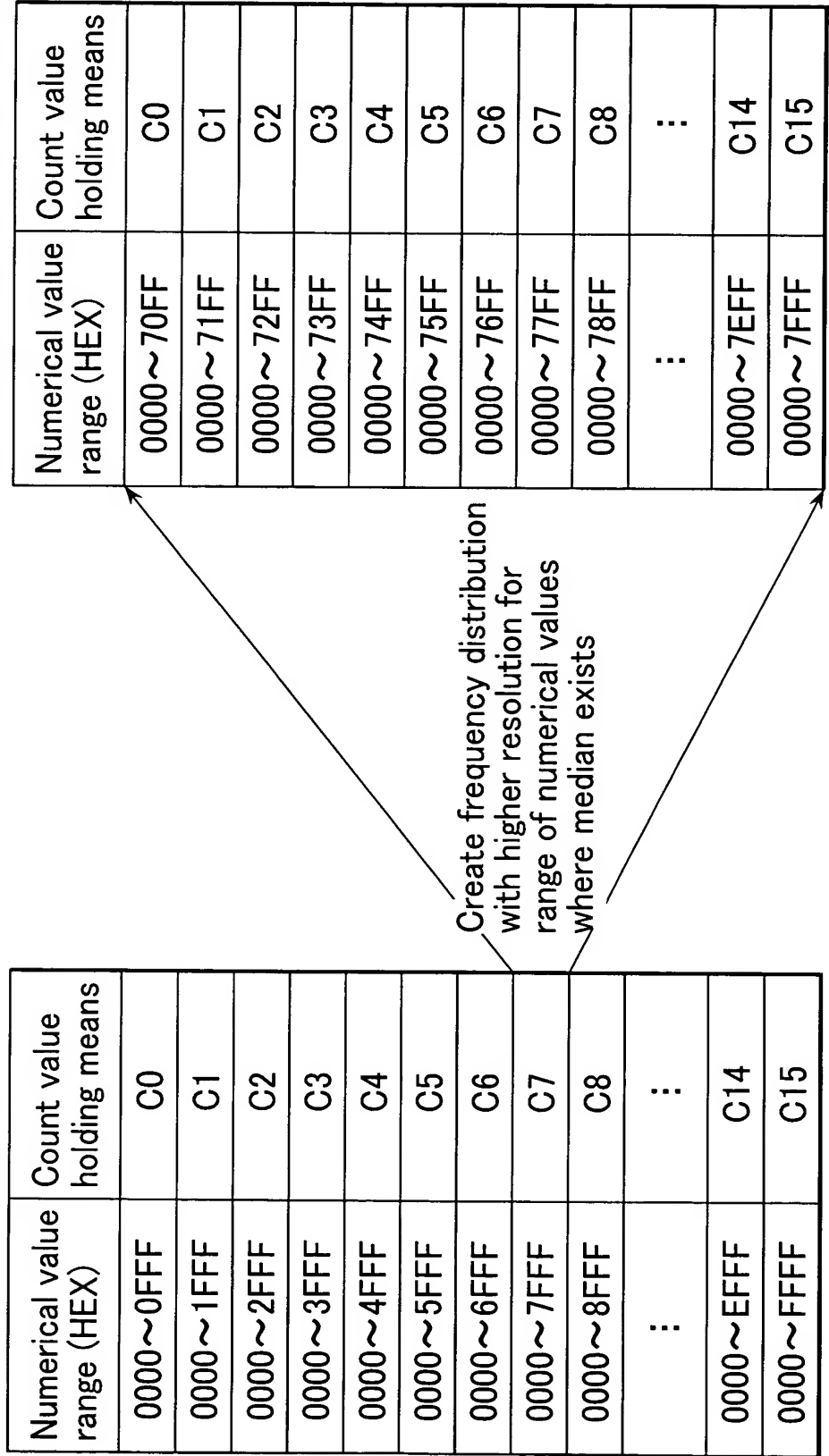


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FIG.11

Create cumulative count distribution with resolution of first eight bits for range of numerical values where median exists

Create cumulative count distribution with resolution of first four bits



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FIG.12

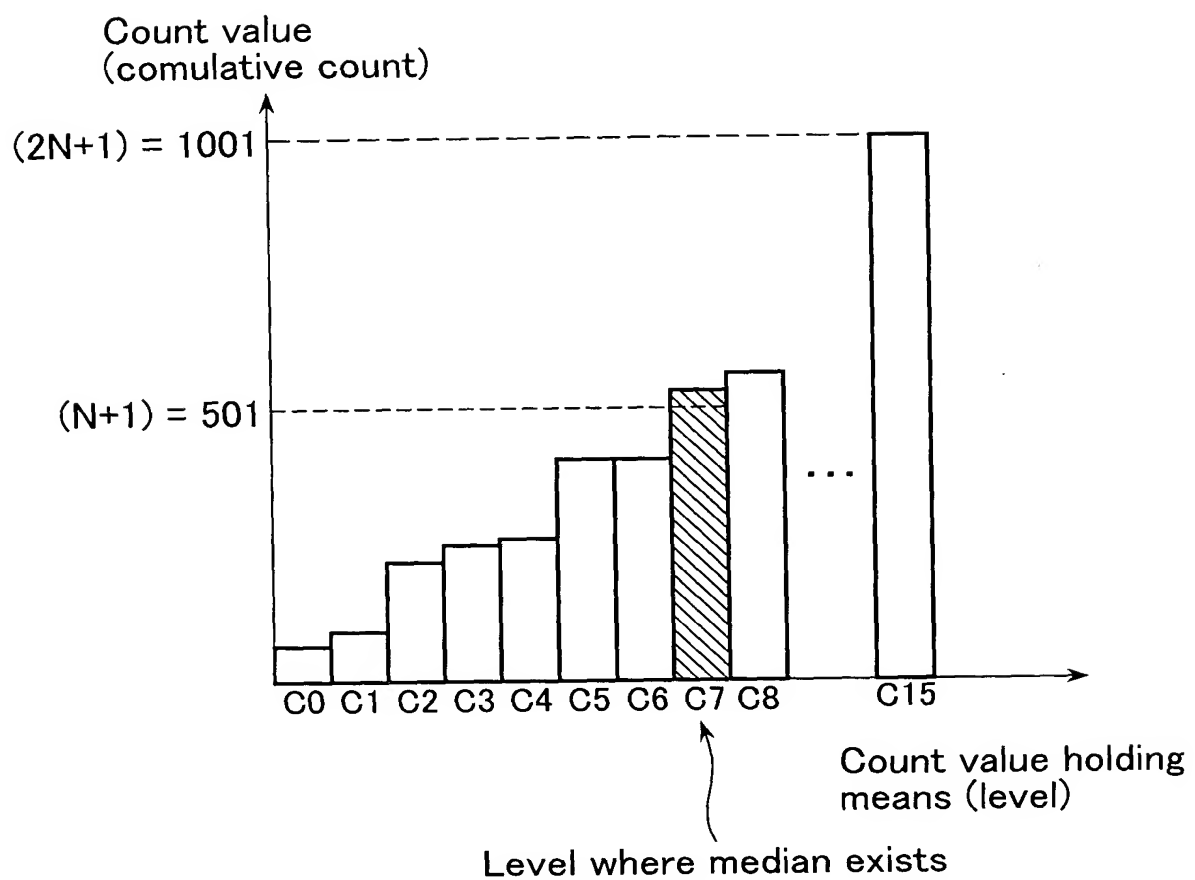


FIG.13

